

ABSTRACT OF THE DISCLOSURE

A network healing smart fiber optic switch for fast, automatic switching between multiple paths of an optical transmission line with minimal disruption. The network healing smart fiber optic switch feeds each of multiple fiber optic inputs to a splitter. One of the outputs of the splitters go to an optical switch, which selects the optical signal to send to the output based on a control signal from a controller or analog selection circuit. The other outputs of the splitters go to the analog selection circuit, which outputs a control signal to the optical switch. The analog selection circuit compares the primary optical signal to a selected setpoint to determine the signal's validity. The analog selection circuit routes an alternate, or secondary, optical signal upon failure of the primary optical signal. After the primary signal is restored and valid for a specified period, the analog selection circuit deselects the secondary optical signal and routes the primary optical signal.

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